

2ndQuarter FY00 GRC SIP Milestone Status

FY00 SIP MILESTONE STATUS EXCEPTION TRACKING REPORT							4Q99 STATUS			1Q00 STATUS			2Q00 STATUS		
As of 6/19/00							COST	SCHEDULE	TECHNICAL PERFORM.	COST	SCHEDULE	TECHNICAL PERFORM.	COST	SCHEDULE	TECHNICAL PERFORM.
ID No.	GRC Objectives (In Bold Italic) / Milestones	Planned Date	Actual Date	Owner	Org.	Program/ Project/ Process									
0A1.0	GRC Objective A1: Reduce aircraft accidents related to icing, weather, poor visibility, and engine problems; develop technology to prevent and suppress aircraft fires.			C. RUSSO	2000										
2000A1.1	Complete and publish three-dimensional design guidelines for the control of gear crack paths and the prediction of crack growth rates in ultrasafe gears.	2Q01 4Q00	Late 2Q01	D. Lewicki/ J. Zakrajsek	5950/ 0300	Rotorcraft Base/Safe All Weather Ops for RC (581-30)				GREEN	YELLOW	GREEN	GREEN	YELLOW	GREEN
0A7.0	GRC Objective A7: Develop low-cost intermittent combustion and turbine engines and single-lever engine controls for General Aviation aircraft.			P. McCALLUM F- BERKOPEG	0140		2Q00 APP Program Office submitted as "Yellow" Schedule saying on schedule but no slack. DSMT changed to "Green" based upon strict interpretation of the Criteria.								
2000A7.2	IC Engine Element: by 3/00 complete Engine/Propeller Integration Test clearing engine design for flight.	2Q00	Late 3Q00	L. Burkardt	2200	Aerospace Propulsion & Power Base/General Aviation Propulsion (GAP)				GREEN	GREEN	GREEN	GREEN	YELLOW	GREEN
2000A7.3	Turbine Engine Element: By 5/00 complete Engineering Indendent Review Team (EIRT) Assessment certifying V-Jet II/FJX as flight ready	3Q00		L. Burkardt	0140	Aerospace Propulsion & Power Base/General Aviation Propulsion (GAP)				GREEN	GREEN	GREEN	GREEN	RED	GREEN
2000A7.1	Perform flight demonstrations of advanced General Aviation piston and turbine engines at the annual Oshkosh Air Show.	4Q00		L. Burkardt	0140	Aerospace Propulsion & Power Base/General Aviation Propulsion (GAP)				GREEN	GREEN	GREEN	GREEN	RED	GREEN
0A8.0	GRC Objective A8: Develop computing and testing tools to reduce aircraft engine design and development time.			C. RUSSO	2000										
2000A8.1	Develop ground and flight demonstration capabilities and methodologies for integrated air-breathing propulsion systems for experimental hypersonic vehicles and access to space.	4Q00	Late 1Q01	D. Palac/ R. Blech	0142/ 5880	Propulsion Systems R&T Base/Hybrid Propulsion (HHP)				GREEN	YELLOW	GREEN	GREEN	YELLOW	GREEN
2000A8.2	Demonstrate real-time, on demand, off-body instrumentation systems suitable for use in high- productivity wind tunnels and aeropropulsion facilities.	4Q00		C. Mercer	5520	Information technology base R&T program (ITTS)				YELLOW	GREEN	GREEN	GREEN	GREEN	GREEN
0A9.0	GRC Objective A9: Reduce the cost contribution of access-to-space propulsion systems and associated subsystems while improving their performance, life, function and operability.			G. BARNA / F- BERKOPEG- P. McCallum	6000/ 0140										
2000A9.1	Develop and demonstrate X-33-scale advanced propellant densification technology. Complete LOX densifier verification testing and assembly of a hydrogen densifier.	2Q00	Late 3Q00	D. Vento / T. Tomsik	6500	RLV Focused				GREEN	GREEN	GREEN	YELLOW	YELLOW	YELLOW
2000A9.6	Complete rocket-based combined cycle (RBCC) propulsion inlet, mixer combustor, and integrated propulsion pod component validation for semi-axisymmetric vertical take-off systems.	4Q00	Late 1Q01	Don Palac John Sankovic	0142	Aerospace Propulsion & Power Base/HHP				GREEN	YELLOW	GREEN	GREEN	YELLOW	GREEN

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0A10.0	GRC Objective A10: Develop advanced spacecraft propulsion technology.			G. BARNA	6000										
2000A10.2	In partnership with Russia, flight-demonstrate Hall Effect thruster technology on EXPRESS.	4Q00	Late	John Dunning Harry Gikane	6500	Pathfinder	YELLOW	YELLOW	YELLOW	GREEN	RED	YELLOW	RED	RED	RED
0H1.0	GRC Objective H1.0: Develop power, communications, and in-space propulsion systems and advance the state of knowledge of reduced-gravity effects to enable human missions of exploration. (Was supporting FY99 HEDS Goal 2, now FY2000 HEDS Goal 1)			G. BARNA	6000										
2000H1.5	Support World Radiocommunications Conference 2000 , including all preparatory meetings.	3Q00		W. Whyte	6140	Spectrum Management	GREEN	GREEN	YELLOW	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN
2000H1.1	Deliver the Mars Array Technology Experiment (MATE) and Dust Accumulation and Removal Experiment (DART) flight experiments for the Mars 2001 mission	2Q00	Late 4Q00	D. Flood	5410	CETDP Power Tech/ Mars 2001	YELLOW	GREEN	GREEN	GREEN	YELLOW	YELLOW	YELLOW	YELLOW	GREEN
2000H1.3	Receive the phased-array antenna flight unit from Raytheon for the Direct Data Distribution (DDD) experiment and commence test and integration.	3Q00	Late 4Q00	J. Budinger/ L. Wald	6100/ 6150	Space Operations Program/ Technology Activities Project				GREEN	YELLOW	GREEN	GREEN	YELLOW	GREEN
0H2.0	GRC Objective H2: For the combustion science and fluid physics disciplines, enable the research community to use gravity as an experimental variable. (Was supporting FY99 HEDS Goal 1, now FY2000 HEDS Goal 2)			G. BARNA	6000										
2000H2.1	Complete development, testing and delivery of the Combustion Module 2 (CM-2), along with one commercial and two scientific experiments, and prepare it for operation on STS-107.	4Q00 2Q00	Launch Delay 4Q00	A. Otero S. Simons	6729 6700	Microgravity Reserch Program				GREEN	GREEN	GREEN	GREEN	GREEN	GREEN
2000H2.2	Complete one Spread-Across-Liquid (SAL) and one-Extensional Rheology Experiment (ERE) sounding rocket flight.	2Q00	Late 4Q00	S. Simons	6700	Microgravity Reserch Program				GREEN	RED	GREEN	GREEN	YELLOW	GREEN
HEDS-3.0	Support the deployment and operation of the ISS.			G. BARNA	6000										
2000H3.3	Provide for deployment on 6A UF-1, the Physics of Colloids in Space (PCS) experiment, integrate it in the ISS EXPRESS rack, and initiate experiment operations following system checkout.	3Q01 4Q00	Launch Correctio n 3Q01	N. Shaw	6728	Fluid Physics Research Projects				GREEN	GREEN	YELLOW	GREEN	GREEN	YELLOW

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SS-1.0	Develop power, onboard propulsion, communication, and other advanced spacecraft technologies.			G. BARNA	6000										
2000S1.2	Complete K-band monolithic microwave, integrated-circuit-based phased array development testing for use in Direct Data Distribution experiments.	2Q00	Late 4Q00	M. Jarrell R. Kunath/ A. Anzic	6100/ 5640	CETDP/High Rate Data Delivery	GREEN	YELLOW	YELLOW	RED	RED	YELLOW	GREEN	RED	YELLOW
2000S1.3	Complete investigation of reliable transport protocols over dynamically delay-varying links	3Q00		M. Jarrell R. Kunath/ W. Ivancic	6100/ 5610	CETDP/HRDD				GREEN	GREEN	YELLOW	GREEN	GREEN	YELLOW
0M1.0	GRC MS Objective 1.0: Optimize GRC investments and align its resources to customer requirements.			D. CAMPBELL	0100										
OngoM1.A	Create a Model Workplace demonstrated by GRC's Key Values of Diversity, Quality, Openness, and Integrity. Create and maintain a work environment free of discrimination, ensuring equal opportunity for all.	2003		P. WALKER	0100	N/A				NR	NR	NR	GREEN	GREEN	YELLOW
OngoM1.B	Achieve a workforce representative of America's diversity.	ON-GOING		R. Romero B. Hill-/ P. Walker	0180/ 0100	N/A	N/A	N/A	YELLOW	GREEN	GREEN	YELLOW	GREEN	GREEN	YELLOW
2000M1.5	Complete Business Management System implementation.	2Q00	Late 4Q00	J. Haas	0106	BMS/ISO				GREEN	GREEN	GREEN	GREEN	GREEN	GREEN
OngoM1.D	Maintain ISO 9001 compliance and re-registration thereafter.	On-going		J. Haas	0106	BMS/ISO				RED	GREEN	GREEN	RED	GREEN	GREEN
0M2.0	GRC MS Objective 2.0: Increase performance-based contracting.			B. BAKER	0600										
2000M2.1	Obligate at least 80 percent of all procurement dollars to performance-based contracts.	4Q00		Brad Baker	0600	N/A				GREEN	YELLOW	YELLOW	GREEN	GREEN	GREEN

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0M3.0	GRC MS Objective 3.0: Ensure that GRC information technology provides an open and secure exchange of information, is consistent with Agency technical architectures and standards, demonstrates a projected return on investment, reduces risk, and directly contributes to mission success.														
OngoM3.D	Ensure that robust network boundary controls are in place and maintained to protect mission data.	On-going		Richard Kurak	7190	IT Security				RED	GREEN	GREEN	GREEN	GREEN	GREEN
OngoM3.C	Ensure that Information Security Plans are implemented for all GRC IT systems.	4Q00		Pam Kotlenz	7100	IT Security				GREEN	GREEN	GREEN	GREEN	YELLOW	GREEN
2000M3.9	Complete an Information Technology security risk assessment for the Telescience Center.	3Q00		Gretchen Davidson	6920	IT Security				GREEN	GREEN	GREEN	GREEN	YELLOW	GREEN
0P2.0	GRC PAPAC Objective 2.0: Significantly enhance and expand GRC's critical technical capabilities.			W. Whitlow/ M. Goldstein	5000/ 0100										
OngoP2.A	Develop and implement a critical technical capabilities and/or a core competencies plan.	On-going		W. Whitlow	5000	N/A	YELLOW	YELLOW	GREEN	GREEN	YELLOW	GREEN	GREEN	YELLOW	GREEN
0P4	GRC PAPAC Objective 4.0: Form alliances and partnerships with other NASA Centers, federal, state, and local agencies, academia, and industry.			G. BARN/ W. Whitlow	6000/ 5000										
2000P4.2	Support 30 women-owned and minority-owned small businesses under the Garrett Morgan Commercialization Initiative.	On-going		G. Steele/ L. Viterna	9400	Commercial Technology Office				GREEN	YELLOW	GREEN	GREEN	YELLOW	GREEN
OngoP4.F	Provide leadership and technical support to the Glennan Microsystems Initiative, a collaboration with regional industrial and academic partners, to foster innovations in micro electronic, sensor, actuator, system and control technologies for harsh environments.	On-going		M. Zeller G. Merceer	5500 5629	Glennan Microsystems Initiative	RED	RED	RED	YELLOW	YELLOW	RED	YELLOW	YELLOW	YELLOW
0C1.0	GRC CK Objective 1.0: Expand and enhance GRC science, math, and engineering educational programs and public outreach. To accomplish this, GRC will align its educational programs with the framework described in the NASA Implementation Plan for Education.			J. HAIRSTON	9000										
2000C1.2	Teacher Preparation and Enhancement - Deliver on-site educational workshops to 250 teachers	4Q00		J. Charleston	9200	Education Programs				GREEN	GREEN	GREEN	GREEN	YELLOW	GREEN
2000C1.4	Curriculum Support Depending on funding, bring in one or two primary teachers to develop aerospace curriculum materials suitable for grades K-3.	4Q00		J. Charleston	9200	Education Programs				GREEN	GREEN	GREEN	RED	RED	RED